2+2.00

5th primary 2nd term St. Joseph's School **Math Worksheets** Unit 1 The set of Natural numbers The set of: Natural numbers $N = \{0, 1, 2, 3, 4, 5, 6, 7, 8, \dots \}$ $C = \{ 1, 2, 3, 4, 5, 6, 7, 8, \dots \}$ Counting numbers $E = \{0, 2, 4, 6, 8, 10, 12, 14, \dots \}$ Even numbers $0 = \{1, 3, 5, 7, 9, 11, 13, 15, \dots \}$ Odd numbers $P = \{2, 3, 5, 7, 11, 13, 17, 19, \dots \}$ Prim numbers 1) <u>Complete using</u>∈, ∉, ⊂ or ⊄: e) {1, 1.5, 2, 3 } N a) 0..... N b) 1.2 N f) {2, 5, 7} N g) $\frac{3}{5}$ N c) $\frac{8}{4}$ N h) 100 N d)Ø 2) Complete: a) The smallest natural number is b) The smallest counting number is c) The set of natural numbers which are less than 6 is d) The set of Natural numbers which are less than or equal 8 is

e) The set of natural numbers between 3 and 7 is

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3) Represent the follow	ving set on the number line:		
a) {3, 4, 5, 6}			
b) The set of natural	numbers greater than 5		
c) {0, 2, 4,}			
d) {3, 5, 7,}			
4) Write the following state number line: a) $X = \{ a : a \in \mathbb{N}, a \leq 6 \}$	sets using the listing method	then repres	sent them on
b) $Y = \{ x : x \in \mathbb{N}, x > 5 \}$			
c) $Z = \{ x : x \in \mathbb{N}, 1 \le x \}$	≤ 5}		
d) $A = \{ a : a \in N, 2 < x < a < a < b < a < b < c < a < a < a < b < c < a < a < a < a < a < a < a < a < a$	<8}	aye	
e) B= $\{ a : a \in \mathbb{N}, 6 \ge a \}$	> 2}		

g) $F = \{ x : x \in N, x \le 4 \}$

f) $C = \{a : a \in N, a \ge 4\}$

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	ntural numbers where a>b bers on the number line.	,a>c and b <c< td=""></c<>		
	four natural numbers whe	ere M>N, k <m and="" n<k<br="">ber line.</m>		
7) If the greatest num	aber of three consecutive n	atural numbers is x+6		
Find the other two nu	ımbers			
	nber of five consecutive evenumbers	en natural numbers is x+10		
9) If the middle number of 3 successive natural odd numbers is Z Find the other two numbers				
10) <u>Complete:</u>				
a) E ∪ 0 =				
b) E ∩ 0 =				
c) E ∩ P =	N - 0	W = P		
d) $N \cap P = \dots$	$, \qquad N \cap O = \dots$	$, \qquad N \cap E = \dots$		
e) N∪P =	$, \qquad N \cup O = \dots$	$, \qquad N \cup E =$		
f) N- E = O - E =	, N- O = . E - O =			
27.5	me odd number isd number is			
ii) The sinanest ou	(3)			

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Operations on Natural numbers

Addition in N:

1) Complete:

a) The additive neutral element is

b)
$$15 + (23 + \dots) = (15 + \dots) + 17$$

(..... Property)

c)
$$99 + \dots = 99$$

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(..... element)

d)
$$73 + \dots = 27 + \dots$$

(..... Property)

e)
$$120 + 80 = \dots \in \mathbb{N}$$

(..... Property)

2) Use the properties of addition in N to find the result of each of the following:

a) 536 + 280 + 464

b) 388 + 749 + 612 + 251

......

.....

.......

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Subtraction in N:

1) Make a line graph for the following:

- a) 6 4
- b) 9 5 1

2) Complete using ∈ or ∉:

- a) 8 4
- b) 0 1...... N
- N c) 3 - 5
- d) 10 7 N

Multiplication in N:

1) Complete:

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a) The multiplicative neutral element is

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g)
$$6 \times 102 = 6 \times (\dots + \dots)$$

2) Use the properties of multiplication in N to find the result of each of the following:

b)
$$8 \times 19 \times 125$$

c)
$$4 \times 6 \times 25 \times 9$$

d)
$$20 \times 7 \times 50 \times 3$$

(6)

2+2-8

St. Joseph's School	Math Worksheets	5 th primary 2 nd term				
3) <u>Use the distributive p</u> i	3) Use the distributive property to find the result of each of the following:					
a) 26× 101	d) 48× 9					
b) 35× 1004	e) 15× 34	46				
RoNi		oyed)				
c) (97+13)× 56	f) 8 × (19	95+15)				
	(7)					

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4) Use the properties of multiplication in N to find the result:

- a) $32 \times 64 + 32 \times 36$
- b) $15 \times 45 + 15 \times 55$
- c) $47 \times 7 37 \times 7$
- d) $16 \times 999 + 16$
- e) $37 \times 40 + 37 \times 61 37$

تابع جدہد ذاکر ولي على جوجــل ہلــس تليجــرام

Division in N:

1)Find the result:

a)
$$\frac{4+8}{60 \div 5}$$

2+2 9

b)
$$\frac{30 \div 15}{9 - 9}$$

2) Complete using ∈ or ∉:

a)
$$48 \div 6$$
 N

d)
$$5 \div 0$$
 N

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(8)

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Numerical pattern:

1) Complete in the same pattern:

- a) 5, 55, 555, ,
- b) 1, 3, 5, ,
- c) 2, 3, 5, 8, ,
- d) 4, 9, 14, 19, ,
- e) 2, 4, 8, ,

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- f) 1, 5, 25,
- g) 100, 90, 81, 73,, ,
- h) 1, 4, 9, 16, ,
- i) 1, 1, 2, 3,5, 8,

2) What is the tenth term of the sequence?

- a) 1, 3, 6, 10, 15,
- b) 1, 4, 9, 16,

(9)

2+2-

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Unit 2	Equations				
1) <u>Translate into symbo</u>	olic expression:				
a) Twice the number x					
b) Add 7 to the number	· y				
c) Subtract 5 from the	number z				
d) Multiply 4 by the nu	mber k				
e) Divide the number L	by 3				
f) Add 6 to the 3 times	of a number				
g) Subtract 1 from the l	nalf of a number				
h) Four more than a nu	mber X				
i) Eight less than a nun	nber X				
j) A number M is subtracted from 15					
k) Multiply a number F	by 6 then subtract 4 from	the result			
l) Divide a number L by	y 4 then add 7 to the Quoti	ent /			
m) Twice of a number subtracted 8 from it					
2) <u>Complete:</u>					
a) Ahmed is x years old	then his age after 3 years	is			
b) A square of side leng	gth y then its perimeter is				
c) Nada bought 3 pens for L.E x each and 5 note books for L.E y each.					
Then she paid					
d) The perimeter of a rectangle is $30\ cm$ if its length is x cm, then its width is					
(10)					

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9

St. Joseph's School	Math Wor	ksheets	5 th primary	2 nd term	
e) The sum of two num	bers is 9 if o	ne of them is r	n then the ot	ther number is	
f) The difference between	en 2 numbe	ers is 9 if the si	naller numb	er is x then	
the greater number i					
g) The difference between			reater numb	er is v then	
the smaller number i				,	
				_	
3) Write the mathematic1) If the price of one bo					
The number of books is	х	The total pri	ce of booksi	s y	
The mathematical relat	ion is				
2) If the base of an isos	celes triang	le = 7 cm, AB=	=AC=L cm		
Then the perimeter is I	Then the perimeter is P=				
3) If the price of one meal is 20 pounds					
The delivery service = 5	5 pounds for	any number	of meals		
The number of meals is	X	Total p	rice is Y		
The mathematical relation is					
4) If the side length of an equilateral triangle is L Then the perimeter is					

(11)

amy

Math Worksheets

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4) Solve the following equations:

a)
$$x + 5 = 13$$

b)
$$y - 7 = 20$$

c) 10 - x = 4

d)
$$2x + 5 = 35$$

e)
$$3x = 27$$

f) 7x - 7 = 21

 $g) \frac{1}{4} y = 3$

h) $\frac{1}{3}$ y + 6 = 7

(12)

2nd term St. Joseph's School **Math Worksheets** 5th primary

5) Translate each verbal statement into an equation:

- a) A number if added to 6 the sum is 10
- b) If 3 is subtracted from a number produces 25
- c) If 7 is subtracted from twice of a number then the result is 15

6) Solve the following equations:

- a) 37 + x = 11 + 37
- b) $6 \times 79 = (y \times 9) + (y \times 70)$
- c) $26 x = 7 \times 26$
- d) $783 = x + (8 \times 10) + (7 \times 100)$
- e) $(y+5) \times 8 = 8 \times 9$
- f) $x \times 5 + x \times 60 = 65 \times 4$
- 7) If y = 3x is a mathematical relation between x and y, then complete the table:

X	3	0		7	5
у	••••	••••	27		

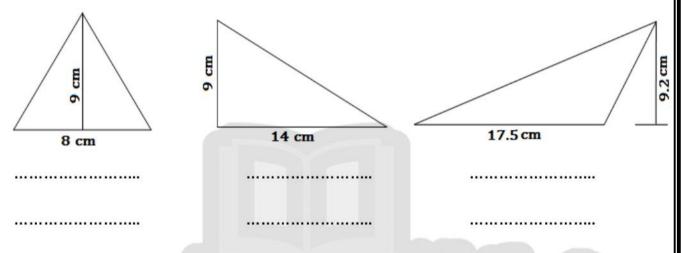
8) If y = 5x-2 is a mathematical relation between x and y, then complete the table:

X	1	2		4	5
у	••••		13	*****	

(13)

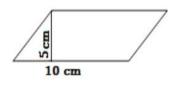
St. Joseph's School	Math Worksheets	5 th primary	2 nd term
<u>Unit 3:</u>	Measurement		

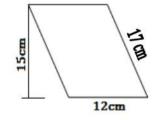
1) Find the area of the following triangles:

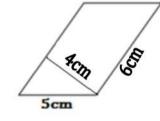


2) Calculate the area of an equilateral triangle if its perimeter is 21 cm and its height is 4 cm

3) Find the area the following parallelograms:







(14)

2+2-8

St. Joseph's School	Math Worksheets	5 th primary	2 nd term			
5	4) Which is greater in area a parallelogram of base 4 cm and height 5 cm or a triangle of base 8 cm and height 3cm?					
5) Find the area <i>the follow</i>	<i>ing</i> squares:					
8cm		12cm				
6) Find the area of the colo	oured surface:	2cm	4.5cm			
7) A square of diagonal 18 cm. Find its area.						
	(15)					

amy

2+2

St. Joseph's School	Math Worksheets	5 th primary 2 nd term					
8) A square of area 32 of	8) A square of area 32 cm ² . Find the length of its diagonal.						
	gth 6 cm, its area is equal to the standard stan	to the area of a rhombus if the length of the other					
10) Find the area of ea	ach rhombus:						
3cm	16cm	# 4cm					

(16)

am x

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St. Joseph's School	Math Worksheets	5 th primary 2 nd term				
11) Find the area of	11) Find the area of a rhombus of diagonals 8 cm and 6 cm					
12) Find the area of	a rhombus of side length12	2 cm and height 3 cm				
	n of a rhombus is 6 cm, its hals is 12m. Find the length	eight is 4 cm and the length of the other diagonal				
	r in area a parallelogram of of side length 8cm and hei	base length 7cm and height ght 4cm?				
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(17)

am x

Math Worksheets

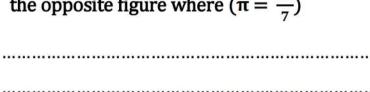
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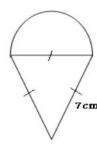
2nd term

- 15) Find the circumference of the following circles ($\pi = \frac{22}{7}$):
 - a) r=14cm
 - b) d = 21 cm
- 16) Find the circumference of the following circles to the nearest tenth $(\pi = 3.14)$:
 - a) r = 4.9 cm
 - b) d = 5.6 cm
- 17) A circle of circumference 22cm find its diameter $(\pi = \frac{22}{7})$

18) Find the difference between the circumferences of two circles the first of diameter 28 cm and the second of radius 7cm.

19) Calculate the perimeter of the opposite figure where $(\pi = \frac{22}{7})$





(18)

2nd term Math Worksheets St. Joseph's School 5th primary Geometric transformation Unit 4: 1) In Cartesian co-ordinate plane from the following figure: a) Complete: A (......) B (.....) C (.....) b) If L is the axis of reflection of the triangle ABC, Find the image of the triangle by reflection in L then complete: The image of A by reflection in L is A'(.......) The image of B by reflection in L is B' (......) The image of C by reflection in L is C` (........) 2) In Cartesian co-ordinate plane from the following figure: a) Complete: A (.....) B (.....) C (.....) D (.....) 5 6 7 8 9 10 11 12 13 14 15 16 17 b) If L is the axis of reflection of the parallelogram ABCD, Find the image of the parallelogramby reflection in L then complete: The image of A by reflection in L is A' (.......) The image of B by reflection in L is B' (.......) The image of C by reflection in L is C` (........) The image of D by reflection in L is D` (.......)

St. Joseph's School **Math Worksheets** 5th primary 2nd term 3) In Cartesian co-ordinate plane from the following figure: a) Complete: A (......) B (.....) C (.....) b) If L is the axis of reflection of the triangle ABC, Find the image of the triangle by reflection in L then complete: The image of A by reflection in L is A` (.......) The image of B by reflection in L is B' (......) The image of C by reflection in L is C` (.......) 4) In Cartesian co-ordinate plane from the following figure: a) Complete: A (......) B (.....) C (.....) D (......) b) If L is the axis of reflection of the figure ABCD, Find the image of the figure by reflection in L then complete: The image of A by reflection in L is A` (.......) The image of B by reflection in L is B' (.......) The image of C by reflection in L is C` (........)

(20)

The image of D by reflection in L is D` (.......)

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Unit 5:

Statistics

1) Complete the following frequency table:

Numbers	Tally	Frequency
1		
2		
3		
4		
5		
Total		20

4545332413 4313243522

2) The following table shows the marks of 29 pupils in mathematics:

Marks	5 -	10 -	15 -	20 -	25 -	Total
Number of pupils	///	##//	## ////	## /	////	29

- a) Rewrite the previous table showing frequency in numbers.
- b) How many pupils get less than 15 marks?
- c) Draw the frequency histogram and frequency polygon of this distribution.

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3) The following table showsthe daily wages of 50workers in a company:

Wages	20 -	30 -	40 -	50 -	Total
Number of workers	10	8	20	12	50

Draw the frequency histogram and frequency polygon of this distribution

4) The following table shows how a family spends its monthly income:

Food	Transports	Electricity	Rent	treatment
800	600	300	400	300

Represent these data by pie chart

5) Represent these data by pie chart

Grade	1 st	2 nd	3 rd	4 th
C. 1 .	1	1	1	1
Students	2	8	8	$\overline{4}$

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Test 1

1) Choose the correct answer:

a) The additive neutral element is

(0, 1, 10)

- b) The set of even numbers (E) \cap the set of prime numbers (P) =(\emptyset , E, {2}, N)
- c) A square of side length y then its perimeter is

(4v, v+4, 3v)

d) The triangle whose base length is 8 cm and the corresponding height of it is 5 cm then $(30 \text{ cm}^2, 20 \text{ cm}^2, 25 \text{ cm}^2)$ its area is......

2) Complete:

- a) The perimeter of a rectangle is 12 cm if its length is x cm, then its width is
- b) The area of the rhombus = $\frac{1}{2} \times ... \times ... \times ...$
- c) Mary is x years now, then her age after 5 years will be
- d) $1, 4, 8, 13, \ldots$, in the same pattern
- e) The difference between two numbers is 4 if the smaller number is x then the greater number is
- 3) Write the following sets using the listing method then represent them on the number line:
 - a) $X = \{ x : x \in N, 1 < x \le 6 \}$
 - b) Y =The set of even number greater than 3

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- 2nd term
- 4) a) Use the properties of addition to find: 26 + 167 + 24 + 333
 - b) Use the distributive property to find: $(98 + 22) \times 5$
 - c) If the greatest number of three consecutive natural numbers is x+10 Find the other two numbers.
 - d) Solve the following equation: y+5=26
- **5) a)** In Cartesian co-ordinate plane determine the following points A(1,6), B(1,2), C(5,2), D(5,6), If \overrightarrow{CD} is the axis of reflection of the figure ABCD, then determine the image of the figure ABCD.
- b) The following table shows the marks of 50 pupils in mathematics:

Marks	0 -	10 -	20 -	30 -	40 -	Total
Number of pupils	2	5	10	18	15	50

- a) Draw the frequency histogram and frequency polygon of this distribution.
- b) How many pupils get less than 30 marks?
- c) How many pupils get 30 marks or more?



(24)

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Test 2

1) Choose the correct answer:

(0, 1, 10)a) The multiplicative neutral element is

b) The set of even numbers (E) — the set of odd numbers (O) =(\emptyset , E, O, N)

c)
$$\frac{20 \div 2}{5 - 5} = \dots$$
 (10, 0, meaningless)

d) The sum of two numbers is 7 if one of them is y then the other number is

$$(7+y,7-y,y-7)$$

e) If x is an odd number then x+1 is number (odd, even, prime)

2) Complete:

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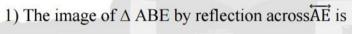
- a) The number of axes of symmetry of the square equals
- b) If a side length of a rhombus is L and its perimeter is P then the mathematical relation between P and L is $P = \dots$
- c) 1, 4, 9, 16, in the same pattern
- d) If $265 = x + (6 \times 10) + (2 \times 100)$ then x = ...
- e) The circle whose diameter length is 7 cm, its circumference = cm $(\pi = \frac{22}{7})$
- 3)a) Use the properties of multiplication to find: $125 \times 27 \times 8$
 - b) Use the distributive property to find: 14×1001
 - c) Solve the following equations: 2x 3 = 15

(25)

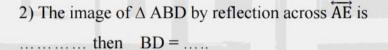
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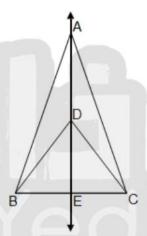
- 2nd term
- 4) a) Which is greater in area a parallelogram of base length 6cm and height9 cm or a rhombus in which the length of its diagonals are 8 cm and 10cm
- b) Write the following set using the listing method then represent it on the number $Z = \{ x : x \in N, 3 < x \le 7 \}$ line:
- c) If the base length of an isosceles triangle ABC is3cm, AB=AC=L cm Then the perimeter is P=.....
- 5) a) In the opposite figure, \overrightarrow{AE} is the axis of reflection Complete:



..... then $AB = \dots$ and $BE = \dots$



3) \triangle DEC is congruent to \triangle



b) The following table shows the working hours of 50 workers in a company:

Number of hours	4 -	6 -	8 -	10 -	Total
Number of workers	12	10	18	10	50

Draw the frequency histogram and frequency polygon of this distribution